

CLAIMS

1. A stream converter, comprising:

a first converter for receiving a bit stream conforming to a DVD-VR standard, converting data except for audio data in the bit stream into data conforming to a DVD-video standard, and outputting a resultant bit stream; and

a second converter for converting, when the audio data does not conform to the DVD-video standard, the audio data in the bit stream output from the first converter into data conforming to the DVD-video standard, and outputting a resultant bit stream.

2. The stream converter of claim 1, wherein the second converter includes:

a channel buffer for storing data of one channel in an input audio pack and outputting the data; and

a channel copying unit for generating and outputting an audio pack in which data of another channel in the audio pack is replaced with the data output from the channel buffer.

3. The stream converter of claim 2, wherein the second converter further includes a flag rewriting unit for receiving an audio pack, supplying a flag indicating stereo as a flag indicating the number of channels in the audio pack, and outputting a resultant audio pack.

4. The stream converter of claim 1, wherein the second converter includes:

a channel removing unit for removing data of one channel in an input audio pack and outputting a resultant audio pack; and

a padding generator for adding, to the audio pack output from the channel removing unit, a padding packet having a length equal to the length of the removed data, and outputting a resultant audio pack.

5. The stream converter of claim 4, wherein the second converter further includes a flag rewriting unit for receiving an audio pack, supplying a flag indicating mono as a flag indicating the number of channels in the audio pack, and outputting a resultant audio pack.

5 6. The stream converter of claim 4, wherein when the audio pack output from the channel removing unit includes a stuffing byte, the padding generator removes the stuffing byte and increases the length of the padding packet by the length of the stuffing byte.

7. The stream converter of claim 4, wherein the second converter further includes:
10 a channel buffer for storing data of a channel to be removed by the channel removing unit in an input audio pack and outputting the data; and
a complementary pack generator for generating and outputting an audio pack including the data output from the channel buffer and a stream ID different from that in an audio pack input to the second converter.

15

8. The steam converter of claim 1, wherein when the audio data is compressed audio data, the second converter decodes the audio data, converts the decoded audio data into a format conforming to the DVD-video standard, encodes the converted audio data, and then outputs resultant data.

20

9. The stream converter of claim 1, wherein when the audio data is compressed in a format not conforming to the DVD-video standard, the second converter decodes the audio data, encodes the decoded audio data in a format conforming to the DVD-video standard, and outputs resultant data.

25

10. The stream converter of claim 1, wherein when the audio data is in a dual mono mode, or when the audio data has been coded by an MPEG audio algorithm, it is

determined that the audio data is not in the format conforming to the DVD-video standard.